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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/820,930	04/08/2004	Anthony Catalano	TAG-001-US-n	8748	
21833 7	590 09/07/2006		EXAMINER		
PRITZKAU PATENT GROUP, LLC			VO, TUYET THI		
993 GAPTER I BOULDER, C	· · · -		ART UNIT	PAPER NUMBER	
2002221,			2821		
			DATE MAILED: 09/07/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/820,9	10/820,930 CATALANO, ANT		THONY			
		Examine	er	Art Unit				
		Tuyet Vo	)	2821				
The Period for Re	ne MAILING DATE of this commun eply	ication appears on th	ne cover sheet wi	th the correspondence a	ddress			
WHICHE - Extensions after SIX ( - If NO perio - Failure to a Any reply a	TENED STATUTORY PERIOD FOR IS LONGER, FROM THE ME OF THE O	AILING DATE OF T of 37 CFR 1.136(a). In no e nunication. atutory period will apply and will, by statute, cause the ap	CHIS COMMUNIC vent, however, may a re will expire SIX (6) MON polication to become AB	CATION.  eply be timely filed  THS from the mailing date of this (ANDONED (35 U.S.C. § 133).	•			
Status		•						
1)⊠ Res	sponsive to communication(s) file	ed on 20 June 2006.						
·		2b)⊠ This action is	non-final.					
<i>'</i> =	ce this application is in condition	, — ·		ers, prosecution as to th	e merits is			
•	sed in accordance with the practi	· ·		•				
Disposition (	of Claims							
4)⊠ Cla	im(s) 50-54,57-61,63,64 and 66-	68 is/are pending in	the application.					
4a)	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)∐ Cla								
6)⊠ Cla	Claim(s) 50-54,57-61,63,64,67 and 68 is/are rejected.							
7)⊠ Cla	im(s) <u>66</u> is/are objected to.		•					
8)∏ Cla	im(s) are subject to restric	ction and/or election	requirement.					
Application	Papers							
9) <u></u> The	specification is objected to by th	e Examiner.						
10)☐ The	drawing(s) filed on is/are:	a) accepted or b	o) objected to □	by the Examiner.				
Арр	licant may not request that any obje	ction to the drawing(s)	be held in abeyan	nce. See 37 CFR 1.85(a).				
Rep	lacement drawing sheet(s) including	the correction is requ	ired if the drawing	(s) is objected to. See 37 C	CFR 1.121(d).			
11) The	oath or declaration is objected to	by the Examiner. N	lote the attached	d Office Action or form P	TO-152.			
Priority unde	er 35 U.S.C. § 119							
12) <u></u> Ack a)⊟ A	nowledgment is made of a claim Ⅱ b)□ Some * c)□ None of:	for foreign priority u	nder 35 U.S.C. §	119(a)-(d) or (f).				
1.[		documents have be	en received.	•				
2.	Certified copies of the priority	documents have be	en received in A	pplication No				
3.[	Copies of the certified copies	of the priority docum	nents have been	received in this Nationa	l Stage			
	application from the Internatio	nal Bureau (PCT Ru	ıle 17.2(a)).					
* See	the attached detailed Office actio	n for a list of the cer	tified copies not	received.	·.			
	•							
Attachment(s)								
	References Cited (PTO-892)			Summary (PTO-413)				
_	Oraftsperson's Patent Drawing Review (P n Disclosure Statement(s) (PTO/SB/08)	10-948)		s)/Mail Date nformal Patent Application				
	s)/Mail Date		6) 🔲 Other:	• •	•			

## **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 50, 51, 53, 54, 57-61, 63, 67 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chun (US Pat. 6,924,605) in view of Dubuc (US Pat. 6,981,784).

Regarding claims 50, 53, 57-61 and 63, 67 and 68, Chun discloses a LED flashlight device (Figs. 4-7) for illuminating an object by directing a beam of light (65) from the device onto the object, comprising:

a housing (12) having a reflecting lens (60) arrangement supported therewith, the lens arrangement including light reflector surface segments which circumscribes a given area and which defines a forward extending central axis of illumination (Figs. 1 and 4); and

an illumination assembly including a printed circuit board (45) having a front planar surface (A, marked by examiner) and a back planar surface (B, marked by examiner), wherein a side edge extending between said front and back surface considered as a thickness of the printed circuit board, a light emitting diode (65) on the front surface (A), a control circuitry (90, 100) connected to the light source (65) and printed on at least one of surface (col. 1, lines 54-63) of the printed circuit board (45) for connecting the light source LED (65) to a power source (55) the light source LED is disposed within the given area in a way it causes light out of a given area guide via means of reflection to a general direction of a forwardly extending central axis of illumination, wherein the illumination assembly includes another of LED light source (110).

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However, Chun does not teach the light source having an underside base is adjacent to and confronting the front surface of the PCB.

Dubuc discloses in figure 10, plural solid state lighting sources (50) having underside bases adjacent and confront/perpendicular directly to the front surface of printed circuit board (60).

It would have been obvious to one having ordinary skill in the art at the time the invention was made utilize a directly mounting light sources on the one surface of PCB as taught by Dubuc in order to extend capable of mounting light source in variety manner for illumination or aesthetical purpose. Such implementation is considered as a routine skill in the art.

Regarding claims 51 and 54, Chun in view of Duduc, Chun further discloses the LED (65) having two free ends (94, 95) and opposite ends (94\*, 95\*), wherein the two free ends (94, 95) and the opposite ends (94\*, 95\*) define an axis that is parallel to the forward extending axis of the PCB (45).

3. Claims 52 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chun as applied to claim 1 above, and further in view of Dubuc (US Pat. 6,981,784).

Chun discloses substantially the claim invention as noted above except for a control circuitry is printed on the back surface of the printed circuit board and the illumination assembly is extended to retrofit with an incandescent light source.

Duduc fulfills the missing features in Chun by disclosing LED light source device (Figs. 10 and 14), in that, Duluc clearly suggests all of electronic components including a control circuitry for driving LED are printed on the back/reverse side of a printed circuit board for enhancing heat radiation while a plurality of LEDs mounted in a front/forward side of the printed circuit board (col. 4, lines 16-19). Dubuc also teaches not limit the operation of the LED light source system to a LED light source device, but extending the ability of adapting to any type of light source device such as an incandescent bulb (col. 4, lines 28-37).

It would have been obvious to one having ordinary skill in the art to utilize extensive teachings of Dubuc into the Chun lighting system in order to obtain a better light source system with higher reliable operation.

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#### Allowable Subject Matter

4. Claim 66 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: the prior fails to establish first and second electrically conductive bumps on the lengthwise ends of the printed circuit board for serving as an electrical input and output when connected to a power source as required.

#### Remarks

Amendment filed 6/20/2006 has been entered.

#### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyet Vo whose telephone number is 571 272 1830. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571 272 1740. The fax phone numbers for the organization where this application or proceeding is assigned are 571 273 8300 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571 272 2800.

Information regarding the status of an application or status information for publicing/unpublicing applications may be obtained from the Patent Application Information Retrieval (PAIR) system, see http://pair-direct.uspto.gov. Should you have questions on access to the PAIR system, contact the Electronic Business Center (EBC) at toll free 866-217-9197.

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Tuyet Vo

Primary Examiner

September 05, 2006